

**POET Database  
Cross Reference Table**

	Field / Table	Airline	Cancel	CCFP	Control	Flight	Route	Sector	Time	TP_SECTOR	Track	Trajectory
1	acft equip_prefix	X					X					
2	acft equip_suffix	X					X					
3	acft_type	X				X	X					
4	acid					X						
5	act_date	X	X		X	X	X	X	X	X	X	
6	actual_arr_fix					X						
7	actual_dept_fix					X						
8	airspeed						X					
9	airways						X					
10	altitude						X				X	
11	altitude_type						X				X	
12	arr_arpt	X			X	X	X					
13	arr_center						X					
14	arr_fix_time	X					X		X			
15	arr_flag	X			X		X		X			
16	arr_time				X	X	X		X			
17	arrival_fix						X					
18	away											X
19	az_orig_time					X						
20	cancel_orig_time					X						
21	cancel_source_type					X						
22	center										X	
23	centers						X					
24	circularholding					X						
25	coverage			X								
26	ctl_elem				X							
27	ctrl_time_arr					X						
28	ctrl_time_dept					X						
29	cur_lat			cur_lat							X	X
30	cur_lon			cur_lon							X	X
31	dept_arpt	X			X	X	X					
32	dept_center						X					
33	dept_flag	X			X		X		X			
34	dept_time				X	X	X		X			
35	direction			X								
36	distance_from_dest											X

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	Field / Table	Airline	Cancel	CCFP	Control	Flight	Route	Sector	Time	TP_SECTOR	Track	Trajectory
37	dvrec					X	X					
38	dz_orig_time					X						
39	element_type			X								
40	entrance_time							X				
41	entry_alt									X		
42	entry_gs									X		
43	entry_lat									X		
44	entry_lon									X		
45	entry_time									X		
46	entry_type									X		
47	eta	X			X		X		X		X	
48	etd	X			X		X		X			
49	exit_time							X		X		
50	<b>fid</b>	X	X		X	X	X	X	X		X	X
51	field10						X					
52	filed_arr_arpt					X						
53	filed_arr_center					X						
54	filed_arr_fix					X						
55	filed_dept_center					X						
56	filed_dept_fix					X						
57	filed_field_10					X						
58	filedlength					X						
59	fixes						X					
60	flight_index					X						
61	flight_status						X					
62	flightflew					X						
63	flownlength					X						
64	fpa											X
65	fs_arr_time					X						
66	fs_dept_time					X						
67	fz_arr_time					X						
68	fz_dept_time					X						
69	fz_eta					X						
70	fz_etd					X						
71	fz_orig_time					X						
72	groundspeed										X	

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	Field / Table	Airline	Cancel	CCFP	Control	Flight	Route	Sector	Time	TP_SECTOR	Track	Trajectory
73	growth			X								
74	gta	X										
75	gtd	X										
76	header			X								
77	heading											X
78	height			X								
79	in_time	X				X						
80	laadr_climb					X						
81	laadr_desend					X						
82	last_edt					X						
83	last_orig_time					X						
84	nrp					X	X					
85	num_aircraft	X					X					
86	num_vertices			X								
87	off_time	X				X						
88	on_time	X				X						
89	orig_time	X	X		X		X		X		X	
90	out_time	X				X						
91	physical_class	X					X					
92	planned_arr_time					X						
93	planned_dept_time											
94	posit_time										X	X
95	predicted_altitude											X
96	probablility			X								
97	route-dist									X		
98	rta	X										
99	rtd	X										
100	sector							X		X		
101	sectorcount					X						
102	sectors						X					
103	seq_no									X		
104	source_msg	X	X		X		X		X	X		X
105	source_msg_time									X		X
106	spatialdiff					X						
107	speed			X								
108	swp					X	X					

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	Field / Table	Airline	Cancel	CCFP	Control	Flight	Route	Sector	Time	TP_SECTOR	Track	Trajectory
109	text_box_posit			X								
110	time_issued			X								
111	time_valid			X								
112	TO_Flag										X	
113	tp_error						X					
114	tp_eta						X					
115	user_class	X					X					
116	vertices			X								
117	waypoint											X
118	waypoints						X					
119	weight_class	X					X					

**POET Database  
Cross Reference Table**

**POET Database  
Airline**

Name	Definition	Units	Range/Values	Data Type	Data Source System	Orig File	Raw Message
acft equip_prefix	TCAS or heavy aircraft indicator if appropriate; if an acft type has a gross take-off wt of more than 300,000 lbs., it is classified as a heavy acft; by gross take-off wt the B757 is not heavy, but it does create the same amt of turbulence as a heavy acft	a single character identifier	T,H,B,F,L (T= TCAS, H=heavy aircraft, B=both TCAS and heavy, F=B757, L=B757 with TCAS (See Air Traffic Control 7110.65 procedures document, section 2-2-6, IFR flight progress data.) (as of 10/7/96, have also seen a value of "M")	varchar2(1)	ETMS	Airline	FSM
acft equip_suffix	a symbol that indicates, for both VFR and IFR operations, the aircraft's radar transponder, DME, or RNAV capability	a single character identifier	A,B,C,D,E,F,G,M,N,P,R,T,U,W,X (See attached Aircraft Equipment Suffix table from Air Traffic Control 7110.65 procedures document, section 2 3-7, aircraft equipment suffix.) see FAA Pubs Contractions 7340.1 for details	varchar2(1)	ETMS	Airline	FSM
acft_type	authorized aircraft type	alphanumeric	combination of up to 4 alphabetic and numeric characters (e.g., B737, MD80, BE02)	varchar2(4)	ETMS	Airline	FSM
act_date	activation date for the flight, DBA use only	GMT (Zulu) date	Greenwich Mean Time (GMT) date	date	ETMS	Airline	FSM
arr_arpt	arrival airport	combination of letters and/or numbers	mostly, 3 characters for airports and flights within the NAS; for international flights and non-CONUS flights (whether they depart or land within the NAS or not) 4-character identifiers (e.g., SFO, EGLL, CYYT, 2TN2, LA26)	varchar2(5)	ETMS	Airline	FSM
arr_fix_time	estimated time the flight will arrive at its arrival fix	date and time to the nearest minute	Greenwich Mean Time (GMT) date and Time	date	ETMS	Airline	FSM
arr_flag	denotes whether time is actual, estimated, controlled, proposed, or scheduled	a single character identifier	A,T,C,P,S (A=actual, T=ttm/estimated, C=controlled, P=proposed, S=scheduled)	varchar2(1)	ETMS	Airline	FSM
dept_arpt	departure airport	combination of letters and/or numbers	mostly, 3 characters for airports and flights within the NAS; for international flights and non-CONUS flights (whether they depart or land within the NAS or not) 4-character identifiers (e.g., SFO, EGLL, CYYT, 2TN2, LA26)	varchar2(5)	ETMS	Airline	FSM
dept_flag	denotes whether time is actual, estimated, controlled, proposed, or scheduled	a single character identifier	A,T,C,P,S (A=actual, T=ttm/estimated, C=controlled, P=proposed, S=scheduled)	varchar2(1)	ETMS	Airline	FSM
eta	Estimated time of Arrival. The ETA is the best, estimated runway arrival time received from the airline.	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	Airline	FSM

**POET Database  
Airline**

**POET Database  
Airline**

Name	Definition	Units	Range/Values	Data Type	Data Source System	Orig File	Raw Message
etd	Estimated Time of Departure. The ETD is the best, estimated runway departure time received from the airline.	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	Airline	FSM
<b>fid</b>	The key, determined by POET preProcess	long	A big number	number	<b>POET</b>		
gta	Airline Gate Time of Arrival. Predicted gate time of arrival provided by the airline in a CDM message. If an airline has sent in a gate arrival time in a CDM message, then this field contains the most recent such time. Otherwise, the value is null.	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	Airline	FSM
gtd	Airline Gate Time of Departure. Predicted gate time of departure provided by the airline in a CDM message. If an airline has sent in a gate departure time in a CDM message, then this field contains the most recent such time. Otherwise, the value is null	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	Airline	FSM
in_time	I of OOOI, time in the gate. Not provided by ETMS at this time.	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	Airline	FSM
num_aircraft	number of aircraft if this is a formation (e.g., number of military aircraft flying in formation)	a single character identifier	1 - 9	varchar2(1)	ETMS	Airline	FSM
off_time	xOxx of OOOI; wheels-up time. Not provided by ETMS at this time.	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	Airline	FSM
on_time	xxOx of OOOI; wheels-down time. Not provided by ETMS at this time.	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	Airline	FSM
orig_time	time stamp on the source message	date and time to the nearest second	Greenwich Mean Time (GMT) date and time	date	ETMS	Airline	FSM

**POET Database  
Airline**

**POET Database  
Airline**

Name	Definition	Units	Range/Values	Data Type	Data Source System	Orig File	Raw Message
out_time	Oxxx of OOOI. Not provided by ETMS at this time.	date and time to the nearest second	Greenwich Mean Time (GMT) date and time	date	ETMS	Airline	FSM
physical_class	physical class of aircraft	a single character identifier	P,J,T (P=piston, J=jet, T=turbo, '-'=not determined)	varchar2(1)	ETMS	Airline	FSM
rta	Airline Runway Time of Arrival. Predicted runway time of arrival provided by the airline in a CDM message. If an airline has sent in a runway arrival time in a CDM message, then this field contains the most recent such time. Otherwise, the value is null.	date and time to the nearest second	Greenwich Mean Time (GMT) date and time	date	ETMS	Airline	FSM
rtd	Airline Runway Time of Departure. Predicted runway time of departure provided by the airline in a CDM message. If an airline has sent in a runway departure time in a CDM message, then this field contains the most recent such time. Otherwise, the value is null	date and time to the nearest second	Greenwich Mean Time (GMT) date and time	date	ETMS	Airline	FSM
source_msg	Message type that generated this transaction	a single character identifier	N=FM, Q=FC	varchar2(1)	ETMS	Airline	FSM
user_class	flight's user class	a single character identifier	O,T,F,C,G,M,'-' (O=other, T=air taxi, F=cargo, C=commercial, G=general aviation, M=military, '-'=not determined)	varchar2(1)	ETMS	Airline	FSM
weight_class	weight class of aircraft, based on wake vortices produced (a wake vortex is a tornato-like disturbance created as an aircraft passes through the air)	a single character identifier	S,L,H,- (S=small [less than 41,000 lb. (e.g., Cessna 152, Falcon 50)]; L=large [41,000 - 255,000 lb. (e.g., B727, B757, DHC8)]; H=heavy [255,000 lb or more (e.g., B747, DC10)]; '-'=invalid)	varchar2(1)	ETMS	Airline	FSM

**POET Database  
Airline**

**POET Database  
Cancel**

<b>Name</b>	<b>Definition</b>	<b>Units</b>	<b>Range/Values</b>	<b>Data Type</b>	<b>Data Source System</b>	<b>Orig File</b>	<b>Raw Message</b>
act_date	activation date for the flight DBA use only	GMT (Zulu) date	Greenwich Mean Time (GMT) date	date	ETMS	cancel	
orig_time	time the message was received	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	cancel	
source_msg	the source of message	a single character identifier	C, H, P, R, X, Z (C, H=Control cancel, P=FX, R=RS, X, Z=RZ)	varchar2(1)	ETMS	cancel	various
<b>fid</b>	A unique number determined by POET preprocessor	long	A big number	number	<b>POET</b>	cancel	



**POET Database  
CCFP**

Name	Definition	Units	Range/Values	Data Type	Data Source System	Orig File	Raw Message
header	a discriptor for this record	a single character identifier		varchar2(1)	NOAA	FTP	
time_issued	time the CCFP was issued	GMT (Zulu) date	Greenwich Mean Time (GMT) date and time	date	NOAA	FTP	
time_valid	the time this CCFP is valid	GMT (Zulu) date	Greenwich Mean Time (GMT) date and time	date	NOAA	FTP	
element_type	what kind of CCFP this is reflecting	a single character identifier		varchar2(1)	NOAA	FTP	
coverage	indicator of coverage	number		tinyint	NOAA	FTP	
probability	indicator of probability of occurance	number		tinyint	NOAA	FTP	
growth	indicator of kind of growth expected	number		tinyint	NOAA	FTP	
height	tops expected	number		tinyint	NOAA	FTP	
speed	speed of movement	number		smallint	NOAA	FTP	
direction	direction of movement	number		smallint	NOAA	FTP	
num_vertices	nodes for the CCFP	number		smallint	NOAA	FTP	
vertices	list of vertices for this CCFP	a single character identifier	latitude/longitude points	varchar2(1)	NOAA	FTP	
text_box_posit	where the text box associated with this CCFP is placed	a single character identifier	lat/long	varchar2(1)	NOAA	FTP	

**POET Database  
Control**

Name	Definition	Units	Range/Values	Data Type	Data Source System	Orig File	Raw Message
act_date	activation date for the flight, DBA use only	GMT (Zulu) date	Greenwich Mean Time (GMT) date	date	ETMS	Control	
arr_arpt	arrival airport for the most recent received message.	combination of letters and/or numbers	mostly, 3 characters for airports and flights within the NAS; for international flights and non-CONUS flights (whether they depart or land within the NAS or not) 4-character identifiers (e.g., SFO, EGLL, CYYT, 2TN2, LA26)	varchar2(5)	ETMS	Control	
arr_flag	denotes whether arr_time is actual, estimated, controlled, proposed, or scheduled	a single character identifier	A,T,C,P,S (A=actual, T=ttm/estimated, C=controlled, P=proposed, S=scheduled)	varchar2(1)	ETMS	Control	
arr_time	Arrival time from NAS. Generally this is initially set from the flight plan, then updated when UZs and AZ are processed. Before the aircraft arrives this time is the Gate Time of Arrival, either filed or scheduled. If scheduled it is the SGTA, if filed (FZ) it is the GTD plus ETE and is the PGTA. It is the arrival time when an AZ message is received.	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	Control	FS, FZ, AZ, UZ
ctl_elem	element for which a ground delay program (GDP) or ground stop was run; if a flight is controlled, this field is the arrival airport, fix, or sector for which the GDP or ground stop was run	combination of letters and/or numbers	currently (July 2000) this field is the arrival airport	varchar2(6)	ETMS	Control	
dept_arpt	departure airport from the most recent received message	combination of letters and/or numbers	mostly, 3 characters for airports and flights within the NAS; for international flights and non-CONUS flights (whether they depart or land within the NAS or not) 4-character identifiers (e.g., SFO, EGLL, CYYT, 2TN2, LA26)	varchar2(5)	ETMS	Control	
dept_flag	denotes whether time is actual, estimated, controlled, proposed, or scheduled	a single character identifier	A,T,C,P,S (A=actual, T=ttm/estimated, C=controlled, P=proposed, S=scheduled)	varchar2(1)	ETMS	Control	
dept_time	Proposed Gate Time of Departure. Departure time from NAS flight plan. Null if no flight plan has been received for the flight. If multiple flight plans have been processed, shows the P time from the last one.	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	Control	
eta	Estimated time of Arrival. The ETA is the best, estimated runway arrival time; it uses prefix to indicate the status of the flight. See arr_flag below.	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	Control	
etd	Estimated Time of Departure. The ETD is the best, estimated runway departure time considering all data sources. The time is preceded by a prefix indicating the status of the flight. The prefix is in item dep_flag.	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	Control	
fid	A unique identifier generated by POET preProcessor	integer	A big number	number	POET	Control	
orig_time	time stamp on the source message	date and time to the nearest second	Greenwich Mean Time (GMT) date and time	date	ETMS	Control	
source_msg	message type that generated the current transaction record	a single character identifier		varchar2(1)	ETMS	Control	

**POET Database  
Control**

**POET Database  
Flight**

Name	Definition	Units	Range/Values	Data Type	Data Source	Orig File	Raw Message
acft_type	authorized aircraft type	alphanumeric	combination of up to 4 alphabetic and numeric characters (e.g., B737, MD80, BE02). See FAA Pubs Contractions 7340.1 for details	varchar2(4)	ETMS	TIME, ROUTE	FZ, RT, UZ
acid	any combination of up to 7 alphanumeric characters designating a valid call sign	alphanumeric	any combination of up to 7 alphabetic and numeric characters (e.g., JAL421, COA8962, N788CF)	varchar2(7)	ETMS	ALL	ALL
act_date	activation date for the flight (i.e., the departure date of the flight), for use by DBA only	GMT (Zulu) date	Greenwich Mean Time (GMT) date	date	ETMS	ALL	POET
actual_arr_fix	The actual (flown) arrival fix as determined by POET preProcessor	alphanumeric	name of a fix	varchar2(6)	POET	POET	POET
actual_dept_fix	The actual (flown) departure fix as determined by POET preProcessor	alphanumeric	fix name for arrival fix	varchar2(6)	POET	POET	POET
arr_arpt	arrival airport from most recent time_data, route, or position message	combination of letters and/or numbers	mostly, 3 characters for airports and flights within the NAS; for international flights and non-CONUS flights (whether they depart or land within the NAS or not) 4-character identifiers (e.g., SFO, EGLL, CYYT, 2TN2, LA26)	varchar2(5)	ETMS	TIME, ROUTE	FS, FZ, DZ, AZ, UZ, RT
arr_time	Arrival time from NAS. Generally this is initially set from the flight plan, then updated when UZs and AZ are processed. Before the aircraft arrives this time is the Gate Time of Arrival, either filed or scheduled. If scheduled it is the SGTA, if filed (FZ) it is the GTD plus ETE and is the PGTA. It is the arrival time when an AZ message is received.	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	TIME, ROUTE	AZ
az_orig_time	message time from most recent flight arrival message (AZ)	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	TIME	AZ

**POET Database  
Flight**

**POET Database  
Flight**

Name	Definition	Units	Range/Values	Data Type	Data Source	Orig File	Raw Message
cancel_orig_time	Time the cancel message was received	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	CANCEL	RS, RZ, SI
cancel_source_type	Type of message that was received for a cancel message	a single character identifier	see message type table	varchar2(1)	ETMS	CANCEL	RS, RZ, SI
circularholding	flight held - from POET preProcessor	integer	0,1 (0=did not hold, 1=held)	number	<b>POET</b>	POET	POET
ctrl_time_arr	latest 'atime' with CONTROL.arr_flag = 'T' or 'C' from table CONTROL. A preProcessor function!	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	<b>POET</b>	CONTROL	
ctrl_time_dept	latest 'dtime' with CONTROL.dept_flag = 'T' or 'C' from table CONTROL. A preProcessor function!	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	<b>POET</b>	CONTROL	
dept_arpt	departure airport from most recent time_data, route, or position message	alphanumeric	mostly, 3 characters for airports and flights within the NAS; for international flights and non-CONUS flights (whether they depart or land within the NAS or not) 4-character identifiers (e.g., SFO, EGLL, CYYT, 2TN2, LA26)	varchar2(5)	ETMS	TIME, ROUTE	FS, FZ, DZ, AZ, UZ, RT
dept_time	Departure time from NAS. Generally this is initially set from the flight plan, then updated when the DZ is processed. Before the aircraft departs this time is the Gate Time of Departure, either filed or scheduled. If scheduled it is the SGTA, if filed (FZ) it is the GTD plus ETE and is the PGTA. It is the Departure time when a DZ message is received.	Date	Greenwich Mean Time (GMT) date and time	date	ETMS	TIME	DZ, RT
dvrec	Diversion Recovery Flag	integer		number	ETMS	ROUTE, AIRLINE	FSM
dz_orig_time	message time of most recent departure message (DZ)	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	TIME	DZ

**POET Database  
Flight**

Normalized POET data.

## POET Database Flight

Name	Definition	Units	Range/Values	Data Type	Data Source	Orig File	Raw Message
<b>fid</b>	a unique number identifying this flight. Assigned by POET. The primary key!	long	a very large number	number	<b>POET</b>	POET	POET
filed_arr_arpt	airport from most recent FZ message	alphanumeric	name of airport	varchar2(6)	ETMS	ROUTE	FZ
filed_arr_center	the filed arrival center of flight from the most recent filed flight plan	alphanumeric	arr_center	varchar2(4)	<b>POET</b>	ROUTE, where Source_msg='F'	FZ
filed_arr_fix	the arrival fix for the arrival airport. POET preProcessor function, until ETMS provides this data	alphanumeric	an arrival fix	varchar2(6)	<b>POET</b>	POET	POET
filed_dept_center	the filed dept center of flight from the most recent filed flight plan	alphanumeric	dept_center	varchar2(4)	<b>POET</b>	ROUTE, where Source_msg='F'	FZ
filed_dept_fix	the departure fix for the departure airport. POET preProcessor function, until ETMS provides this data	alphanumeric	a departure fix	varchar2(6)	<b>POET</b>	POET	POET
filed_field_10	the filed route of flight from the most recent filed flight plan	alphanumeric	the route of flight	varchar2(1024)	<b>POET</b>	ROUTE, where Source_msg='F'	FZ
filedlength	filed flight length from POET preProcessor	real		number	<b>POET</b>	POET	POET
flight_index	number assigned by ETMS, used by DBA	number		int	ETMS		
flightflew	indication that we have enough data in our database to be confident that a flight actually departed (i.e., was not cancelled, or was only scheduled) and whether either, or both, the origin and destination data appears in the database	integer	0, 1, 2 (0 = flight did not fly; 1 = neither a departure airport nor an arrival airport; 2 = either the origin or the destination is identified, but not both; 3 = both the origin and destination are identified)	number	<b>POET</b>	POET	POET
flownlength	flown length from POET preProcessor	real		number	<b>POET</b>	POET	POET
fs_arr_time	The Scheduled Gate Time of Arrival (SGTA)	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	ROUTE	RT
fs_dept_time	The Scheduled Gate Time of Departure (SGTD)	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	ROUTE	RT

## POET Database Flight

Normalized POET data.

## POET Database Flight

Name	Definition	Units	Range/Values	Data Type	Data Source	Orig File	Raw Message
fz_arr_time	The Gate time of Arrival (PGTA).	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	ROUTE	FZ
fz_dept_time	The Gate Time of Departure (PGTD)	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	ROUTE	FZ
FZ_ETA	Modeled Wheels Down time from most recent FZ message	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	POET	ROUTE	FZ
FZ_ETD	Modeled Wheels Up time from most recent FZ message	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	POET	ROUTE	FZ
fz_orig_time	message time of most recent filed flight plan message (FZ)	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	ROUTE	FZ
in_time	The in time from the airline message. Not currently supplied	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	AIRLINE	
laadr_climb	This flight is candidate for ladder consideration as determined by the POET preProcessor	integer	0,1 (0=not a candidate; 1 = candidate)	number	POET	POET	POET
laadr_desend	This flight is candidate for ladder consideration as determined by the POET preProcessor	integer	0,1 (0=not a candidate; 1 = candidate)	number	POET	POET	POET
last_edt	If flight flew and there was a DZ message this will be the actual departure time (ATD), else estimated (i.e., ETMS modeled) departure time - wheels up (ETD).	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	POET	TIME, ROUTE	
last_orig_time	message time from the most recent message of any type for the current flight	date and time to the nearest second	Greenwich Mean Time (GMT) date and time	date	ETMS	VARIOUS	
planned_arr_time	Best "planned" time of arrival based on all available data	date and time to the nearest second	Greenwich Mean Time (GMT) date and time	date	POET	VARIOUS	

## POET Database Flight

Normalized POET data.

## POET Database Flight

Name	Definition	Units	Range/Values	Data Type	Data Source	Orig File	Raw Message
planned_dept_time	Best "planned" time of departure based on all available data	date and time to the nearest second	Greenwich Mean Time (GMT) date and time	date	POET	VARIOUS	
nrp	indicates the flight is participating in the National Route Program	single character	0,1 (0=not participating, 1=participating)	varchar2(1)	ETMS	ROUTE	FS, FZ, UZ, or AF
off_time	The off time from airline message. Not currently supplied	date and time to the nearest second	Greenwich Mean Time (GMT) date and time	date	ETMS	AIRLINE	
on_time	The on time from the airline message. Not currently supplied.	date and time to the nearest second	Greenwich Mean Time (GMT) date and time	date	ETMS	AIRLINE	
out_time	The out time from airline message. Not currently supplied.	date and time to the nearest second	Greenwich Mean Time (GMT) date and time	date	ETMS	AIRLINE	
sectorcount	indicator that a sector count was done on this flight	integer	0,1 (0=Yes, 1=NO)	number	POET	POET	
spatialdiff	spatialdiff from POET preProcessor	real		number	POET	POET	POET
swp	Severe Weather Avoidance Program (SWAP) in effect for this flight	integer	0,1 (0=not a SWAP flight, 1=SWAP Flight)	number	ETMS	ROUTE	

## POET Database Flight

## POET Database Route

Name	Definition	Units	Range/Values	Data Type	Data Source System	Orig File	Raw Message
acft equip_prefix	TCAS or heavy aircraft indicator if appropriate; if an acft type has a gross take-off wt of more than 300,000 lbs., it is classified as a heavy acft; by gross take-off wt the B757 is not heavy, but it does create the same amt of turbulence as a heavy acft	a single character identifier	T,H,B,F,L (T= TCAS, H=heavy aircraft, B=both TCAS and heavy, F=B757, L=B757 with TCAS (See Air Traffic Control 7110.65 procedures document, section 2-2-6, IFR flight progress data.) (as of 10/7/96, have also seen a value of "M")	varchar2(1)	ETMS	ROUTE	FS, FZ, UZ, or AF
acft equip_suffix	a symbol that indicates the aircraft's radar transponder, DME, or RNAV capability	single character identifier	A,B,C,D,E,F,G,M,N,P,R,T,U,W,X (See attached Aircraft Equipment Suffix table from Air Traffic Control 7110.65 procedures document, section 2-3-7, aircraft equipment suffix.)	varchar2(1)	ETMS	ROUTE	FS, FZ, UZ, or AF
acft_type	authorized aircraft type	alphanumeric	combination of up to 4 alphabetic and numeric characters (e.g., B737, MD80, BE02)	varchar2(4)	ETMS	ROUTE	FS, FZ, UZ, or AF
act_date	activation date for the flight (i.e., the departure date of the flight), <b>included for DBA activities.</b>	GMT (Zulu) date	Greenwich Mean Time (GMT) date	date	ETMS	ROUTE	FS, FZ, UZ, or AF
airspeed	Flight's filed airspeed. For FS = historical average cruise airspeed based on airline and city pair. For FZ, UZ, AF filed airspeed.	knots	airspeed in up to four digits.	number	ETMS		FS, FZ, UZ, or AF
airways	airways the current flight plans to follow	alphanumeric	list of all the airways a flight plans to follow, separated by blank spaces (e.g., J74 J6 J10 V372)	varchar2(1024)	ETMS	ROUTE	FS, FZ, UZ, or AF
altitude	flight's altitude, either actual or assigned	100 feet	0 - 999	number(7)	ETMS	ROUTE	FS, FZ, UZ, or AF
altitude_type	altitude type	single character identifier	C,T,P,A,W,F,B,M,E,' ' (C=DDdC, T=DDdT, P=OTP/DDd, A=ABV/DDd, W=VFR/DDd, F=CVF/DDd, B=DDdBDDd, M=MDDd, E=MDDdBDDd, ' '=DDd, where capital D's are required, lowercase d's are optional) (also an "O")	varchar2(1)	ETMS	ROUTE	FS, FZ, UZ, or AF

## POET Database Route



**POET Database  
Route**

Name	Definition	Units	Range/Values	Data Type	Data Source System	Orig File	Raw Message
arr_arpt	arrival airport	combination of letters and/or numbers	mostly, 3 characters for airports and flights within the NAS; for international flights and non-CONUS flights (whether they depart or land within the NAS or not) 4-character identifiers (e.g., SFO, EGLL, CYYT, 2TN2, LA26)	varchar2(5)	ETMS	ROUTE	FS, FZ, UZ, or AF
arr_center	The ARTCC, who's airspace the destination airport is located within or ARTCC the destination airport is adapted to be located within.	alphanumeric	A-Y (A=ZAB, B=ZBW, C=ZOB, D=ZDV, E=ZAN, F=ZFW, G=ZAU, H=ZHU, I=ZID, J=ZJX, K=ZKC, L=ZLA, M=ZME, N=ZNY, O=ZOA, P=ZMP, Q=ZHN, R=ZMA, S=ZSE, T=ZTL, U=ZLC, V=ZLB, W=ZDC, X=TSC, Y=ZSU, 1=SCT, n=NYT) for the NAS; 0, 2 - 9 for other centers	varchar2(1)	ETMS	ROUTE	FS, FZ, UZ, or AF
arr_fix_time	estimated time the flight will arrive at its arrival fix	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	ROUTE	FS, FZ, UZ, or AF
arr_flag	denotes whether time is actual, estimated, controlled, proposed, or scheduled	single character identifier	A,T,C,P,S (A=actual, T=ttm/estimated, C=controlled, P=proposed, S=scheduled)	varchar2(1)	ETMS	ROUTE	FS, FZ, UZ, or AF
arr_time	If 'P' or 'S' flag the Gate time of Arrival (SGTA or PGTA) else actual wheels up (ATA).	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	ROUTE	FS, FZ, UZ, or AF
arrival_fix	flight's arrival fix	string of alphabetic characters	name that identifies the arrival fix (e.g., PLANO, BUCKS, ROBRT, CIVET)	varchar2(6)	ETMS	ROUTE	FS, FZ, UZ, or AF
centers	list of centers the flight track will pass through	string of alphabetic characters and blank spaces	list of center identifiers that the flight will pass through, each center separated from the next by a blank space (e.g. a flight passing through 4 centers might look like the following: ZAU ZKC ZME ZHU)	varchar2(1024)	ETMS	ROUTE	FS, FZ, UZ, or AF

**POET Database  
Route**

## POET Database Route

Name	Definition	Units	Range/Values	Data Type	Data Source System	Orig File	Raw Message
dept_arpt	departure airport	combination of letters and/or numbers	mostly, 3 characters for airports and flights within the NAS; for international flights and non-CONUS flights (whether they depart or land within the NAS or not) 4-character identifiers (e.g., SFO, EGLL, CYYT, 2TN2, LA26)	varchar2(5)	ETMS	ROUTE	FS, FZ, UZ, or AF
dept_center	The ARTCC, who's airspace the origin airport is located within or ARTCC the origin airport is adapted to be located within.	letter of the alphabet or number or other character	A-Y (A=ZAB, B=ZBW, C=ZOB, D=ZDV, E=ZAN, F=ZFW, G=ZAU, H=ZHU, I=ZID, J=ZJX, K=ZKC, L=ZLA, M=ZME, N=ZNY, O=ZOA, P=ZMP, Q=ZHN, R=ZMA, S=ZSE, T=ZTL, U=ZLC, V=ZLB, W=ZDC, X=TSC, Y=ZSU, 1=SCT, n=NYT) for the NAS; 0, 2 - 9 for other centers	varchar2(1)	ETMS	ROUTE	FS, FZ, UZ, or AF
dept_flag	denotes whether time is actual, estimated, controlled, proposed, or scheduled	single character identifier	A,T,C,P,S (A=actual, T=ttm/estimated, C=controlled, P=proposed, S=scheduled)	varchar2(1)	ETMS	ROUTE	FS, FZ, UZ, or AF
dept_time	If 'P' or 'S' flag the Gate time of Departure (SGTD or PGTD) else actual wheels up (ATD).	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	ROUTE	FS, FZ, UZ, or AF
dvrec	Diversion recovery flag	a single character		varchar2(1)	ETMS	ROUTE	FS, FZ, UZ, or AF
eta	Estimated time of Arrival. The ETA is the best, estimated runway arrival time (wheels down estimate).	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	ROUTE	FS, FZ, UZ, or AF
etd	Estimated Time of Departure. The ETD is the best, estimated runway departure time (Wheels Up estimate).	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	ROUTE	FS, FZ, UZ, or AF
<b>fid</b>	A unique number identifying this flight. Primary key computed by POET preProcessor	long	A big number	number	<b>POET</b>	ROUTE	FS, FZ, UZ, or AF

## POET Database Route

## POET Database Route

Name	Definition	Units	Range/Values	Data Type	Data Source System	Orig File	Raw Message
field10	the fixes, routes, waypoints that make up the flights route for this source_type	combination of letters, numbers, and punctuation characters	a list of airports, airways, and/or fixes for the current flight track (e.g., ORD..RBS.J71.MEM.J35.MCB.V9.MSY/0202S); the fields are separated by periods; 2 periods in a row indicate some omitted entries	varchar2(1024)	ETMS	ROUTE	FS, FZ, UZ, or AF
fixes	the list of fixes on the current route of flight	a string of characters and blank spaces	a list of fixes for the current flight (e.g., the following would be a list of 7 fixes: HCM PEGBY JIMBE GRUBY OJAAY SABBI IRONS); the fixes are separated by blank spaces	varchar2(1024)	ETMS	ROUTE	FS, FZ, UZ, or AF
flight_status	the status of the flight at the time of the current message for that flight	alphabet	N,S,L,F,A,R,C,D,T,X,M,E,' ' (N=none, S=scheduled, L=controlled, F=iled, A=active, R=ascending, C=cruising, D=descending, T=completed, X=cancelled, M=decontrolled, E=error, ' '=not determined)	varchar2(1)	ETMS	ROUTE	FS, FZ, UZ, or AF
nrp	indicates the flight is participating in the National Route Program	single character	0,1 (0=not participating, 1=participating)	varchar2(1)	ETMS	ROUTE	FS, FZ, UZ, or AF
num_aircraft	number of aircraft if this is a formation (e.g., number of military aircraft flying in formation)	single character	1 - 9	varchar2(1)	ETMS	ROUTE	FS, FZ, UZ, or AF
physical_class	physical class of aircraft	alphabet	P,J,T (P=piston, J=jet, T=turbo, ' '=not determined)	varchar(1)	ETMS	ROUTE	FS, FZ, UZ, or AF
orig_time	time stamp on the source message	date and time to the nearest second	Greenwich Mean Time (GMT) date and time	date	ETMS	ROUTE	FS, FZ, UZ, or AF
sectors	list of sectors for current route of flight	a string of characters and blank spaces	a list of sectors for the current flight (e.g., the following would be a list of 4 sectors: ZLCSL ZLC32 ZLC44 ZLA07); the sector IDs are separated by blank spaces	varchar2(1024)	ETMS	ROUTE	FS, FZ, UZ, or AF

## POET Database Route

**POET Database  
Route**

<b>Name</b>	<b>Definition</b>	<b>Units</b>	<b>Range/Values</b>	<b>Data Type</b>	<b>Data Source System</b>	<b>Orig File</b>	<b>Raw Message</b>
source_msg	message type that generated the current transaction record	a single character identifier	F,U,A,S (F=FZ, U=UZ, A=AF, S=FS)	varchar2(1)	ETMS	ROUTE	FS, FZ, UZ, or AF
swp	flag to indicate a SWAP route was applied to this flight.	a single character identifier		varchar2(1)	ETMS	ROUTE	FS, FZ, UZ, or AF
tp_eta	The trajectory processors estimated time of arrival (ETA) wheels on time	date and time to the nearest second	Greenwich Mean Time (GMT) date and time	date	TP		
tp_error	The trajectory processor encountered an error and was unable to complete trajectory processing.	number	Currently only one defined. 1=route string that it cannot be deciphered and produces an "Invalid Route" message	integer	TP		
user_class	flight's user class	single character identifier	O,T,F,C,G,M,' ' (O=other, T=air taxi, F=cargo, C=commercial, G=general aviation, M=military, ' '=not determined)	varchar2(1)	ETMS	ROUTE	FS, FZ, UZ, or AF
waypoints	list of waypoints for current route of flight	alphanumeric	Latitude/longitude values are in minutes with positive longitudes West of Greenwich.	varchar2(1024)	ETMS	ROUTE	FS, FZ, UZ, or AF
weight_class	weight class of aircraft, based on wake vortices produced (a wake vortex is a tornato-like disturbance created as an aircraft passes through the air)	single character identifier	S,L,H,- (S=small [less than 41,000 lb. (e.g., Cessna 152, Falcon 50)]; L=large [41,000 - 255,000 lb. (e.g., B727, B757, DHC8)]; H=heavy [255,000 lb or more (e.g., B747, DC10)]; '-'=invalid)	varchar2(1)	ETMS	ROUTE	FS, FZ, UZ, or AF

**POET Database  
Route**

## POET Database Sector

Name	Definition	Units	Range/Values	Data Type	Data Source System	Orig File	Raw Message
act_date	activation date for the flight DBA use only	GMT (Zulu) date	Greenwich Mean Time (GMT) date	date	POET		
entrance_time	time at point of entry into sector	GMT (Zulu) date	time	date	POET		
exit_time	time at point of exit into sector	date		date	POET		
<b>fid</b>	A unqui number determined by POET preProcessor	long	A big number	number	POET		
sector	identifier of sector	alphanumeric	a sector identifier	varchar2(10)	POET		

**POET Database  
Time**

Name	Definition	Units	Range/Values	Data Type	Data Source System	Orig File	Raw Message
act_date	activation date for the flight (i.e., the departure date of the flight)	GMT (Zulu) date	Greenwich Mean Time (GMT) date	date	ETMS	TIME	
arr_fix_time	estimated time the flight will arrive at its arrival fix	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	TIME	
arr_flag	denotes whether time is actual, estimated, controlled, proposed, or scheduled	single character identifier	A,T,C,P,S (A=actual, T=ttm/estimated, C=controlled, P=proposed, S=scheduled)	varchar2(1)	ETMS	TIME	
arr_time	If 'P', 'S', 'T' or 'C' flag the Gate time of Arrival (SGTA or PGTA) else if source_msg = 'A' actual wheels on (ATA).	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	TIME	
dept_flag	denotes whether time is actual, estimated, controlled, proposed, or scheduled	single character identifier	A,T,C,P,S (A=actual, T=ttm/estimated, C=controlled, P=proposed, S=scheduled)	varchar2(1)	ETMS	TIME	
dept_time	If 'P', 'S', 'T' or 'C' flag the Gate time of Departure (SGTD or PGTD) else if source_msg = 'D' then actual wheels up (ATD).	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	TIME	
eta	Estimated time of Arrival. The ETA is the best, estimated runway arrival time (wheels down estimate).	date and time to the nearest minute	date and time in Oracle date format	date	ETMS	TIME	
etd	Estimated Time of Departure. The ETD is the best, estimated runway departure time (Wheels Up estimate).	date and time to the nearest minute	Greenwich Mean Time (GMT) date and time	date	ETMS	TIME	
<b>fid</b>	A unique number determined by POET preProcessor	long	A big number	number	<b>POET</b>	TIME	
orig_time	time stamp on the source message	date and time to the nearest second	Greenwich Mean Time (GMT) date and time	date	ETMS	TIME	
source_msg	message type that generated the current transaction record	a single character identifier	D,L,E,B,H (D=DZ, L=AZ, E=EDCT, B=5 SETBACK, H=CONTROL CANCEL)	varchar2(1)	ETMS	TIME	

**POET Database  
Time**

**POET Database  
TP\_Sector**

Name	Definition	Units	Range/Values	Data Type	Data Source System	Orig File	Raw Message
act_date	activation date for the flight DBA use only	GMT (Zulu) date	Greenwich Mean Time (GMT) date	date	TP		
entry_alt	Altitude at point of entry into sector	long	altitude in feet	number	TP		
entry_gs	ground speed at point of entry	long	groundspeed	number	TP		
entry_lat	Latitude of point of entry into sector	long	latitude	number	TP		
entry_lon	Longitude of point of entry into sector	long	longitude	number	TP		
entry_time	time at point of entry into sector	GMT (Zulu) date	time	date	TP		
entry_type	type of entry to Sector .:=origin, A = altitude, E=edge	char	., A, E; where '.' = origin, 'A' = enters sector via altitude; 'E' = enters sector across an edge	varchar(1)	TP		
<b>fid</b>	A unqui number determined by POET preProcessor	long	A big number	number	<b>POET</b>		
route-dist	distance traveled in the sector	long	distance in feet	number	TP		
sector	identifier of sector	alphanumeric	a sector identifier	varchar2(10)	TP		
seq_no	a number denoting the place in the sector entry in the list of sectors for this flight	interger	sequence number	number	TP		
source_msg	which message was used to generate these crossings	char	S=FS, F=FZ	char	TP		
source_msg_time	time of the source message	GMT (Zulu) date		date	TP		

## POET Database Track

Name	Definition	Units	Range/Values	Data Type	Data Source System	Orig File	Raw Message
act_date	Departure date of flight, DBA use only	GMT (Zulu) date	Greenwich Mean Time (GMT) date	date	ETMS	TZ_Data	
altitude	flight's altitude, either actual or assigned	100 feet	0 - 999	number(7)	ETMS	TZ_Data	
altitude_type	altitude type	single character identifier	C,T,P,A,W,F,B,M,E,' ' (C=DDdC, T=DDdT, P=OTP/DDd, A=ABV/DDd, W=VFR/DDd, F=CVF/DDd, B=DDdBDDd, M=MDDd, E=MDDdBDDd, ' '=DDd, where capital D's are required, lowercase d's are optional) (also an "O")	varchar2(1)	ETMS	TZ_Data	
center	ARTCC reporting TZ	alphanumeric	Single alphanumeric character, encoding see facility_codes sheet	varchar2(1)	ETMS	TZ_Data	
cur_lat	current latitude in minutes	minutes	in minutes, where negative values are South	number(7, 2)	ETMS	TZ_Data	
cur_lon	current longitude in minutes	minutes	in minutes, where negative values are East	number(7, 2)	ETMS	TZ_Data	
eta	Estimated time of Arrival. The ETA is the best, estimated runway arrival time (wheels down estimate).	date and time to the nearest second	Greenwich Mean Time (GMT) date and time	date	ETMS	TZ_Data	
<b>fid</b>	A unqui number determined by POET preProcessor	long	A big number	number	<b>POET</b>	TZ_Data	
groundspeed	flight's reported speed	knots (nm/hr)	speed made good over the ground	number(8)	ETMS	TZ_Data	
orig_time	time stamp on original (TZ) message	date and time to the nearest second	Greenwich Mean Time (GMT) date and time	date	ETMS	TZ_Data	
posit_time	time at position	date and time to the nearest second	Greenwich Mean Time (GMT) date and time	date	ETMS	tz_data	
TO_Flag	Indicates this data is from a TO message	integer	NULL = tz, 1 = to	number	<b>POET</b>	Position	



## POET Database Trajectory

Name	Definition	Units	Range/Values	Data Type	Data Source System	Orig File	Raw Message
away	name of airway for this segment of flight, if exists, else NULL	alphanumeric	an airway name	varchar2(12)	TP		
predicted_lat	The latitude at posit_time.	minutes	In minutes, negative values are south	number(7,2)	TP		
predicted_lon	The longitude at posit_time.	minutes	In minutes, negative values are east	number(7,2)	TP		
distance_from_dest	the distance from flights destination at posit_time. Negative distance from the flights destination.	float	In feet	number	TP		
<b>fid</b>	A unqui number determined by POET preProcessor	long	A big number	number	POET		
fpa	current fixed posting area (sector)	alphanumeric	the current fixed posting area	varchar2(10)	TP		
groundspeed	ground speed at posit_time	knots (nm/hr)	four digits	number(8)	TP		
heading	flight's speed and direction	knots (nm/hr)	speed made good over the ground	number(8)	TP		
posit_time	estimated time at this position	date and time to the nearest second	Greenwich Mean Time (GMT) date and Time	date	TP		
predicted_altitude	flight's altitude, either actual or assigned	100 feet	The flight's predicted altitude at posit_time	number(7)	TP		
seq_no	the sequence number for this position.	units	digits	number(4)	TP		
source_msg	message used to generate this trajectory	char	S=FS, F=FZ, A=AM	varchar(1)	TP		
source_msg_time	time of the message	date and time to the nearest second	Greenwich Mean Time (GMT) date and Time	date	TP		
waypoint	a valid waypoint (navaid, fix, etc.)	alphanumeric	a valid waypoint name	varchar2(12)	TP		

## POET Database Trajectory

ADL	ADL Definition
ETA	Estimated time of Arrival. The ETA is the best, estimated runway arrival time; it uses prefix to indicate the status of the flight. See dep_arr_flag below.
ETD	Estimated Time of Departure. The ETD is the best, estimated runway departure time considering all data sources. The time is preceded by a prefix indicating the status of the flight. The prefix is in item dep_arr_flag.
CTD	see below
CTA	see below
OETD	Original Estimated Departure Time. OETD is used to save the ETD at the time a ground delay program is issued, or the flight departs, or the flight is "time-out" delayed by CDM. The OETD is used to "back out" of a ground delay program. The OETD does NOT include any time-out delay modeled by CDM when a flight is late departing. Renamed from OGTD because the ETMS name is misleading. OETD is set in the following manner: Whenever an ETD is updated from an FS, FC, FM, or FZ, as long as the flight is not controlled or active, the OETD is set to the new ETD.
OETA	Original Estimated Arrival Time. See discussion of Original Estimated Departure Time. OETA will be set in the following manner: Whenever the ETA is updated from an FS, FC, FM, or FZ, as long as the flight is not controlled or active, the OETA will be updated to the ETA.
EFTA	Estimated Fix Time of Arrival. Time over the airport fix as estimated by CDM.
SGTD	Scheduled Gate Time of Departure. Gate departure time from OAG. Null if no OAG data available for the flight.
SGTA	Scheduled Gate Time of Arrival. Gate arrival time from OAG. Null if no OAG data available for the flight.
PGTD	Proposed Gate Time of Departure. Departure time from NAS flight plan. Null if no flight plan has been received for the flight. If multiple flight plans have been processed, shows the P time from the last one.
PGTA	Proposed Gate Time of Arrival. Arrival time from NAS. Generally this is initially set from the flight plan, then updated when DZ and UZs are processed. Null if no NAS arrival time has been received for the flight.
CTD	Controlled Time of Departure. CTD is the current controlled departure time (EDCT) for a flight. CTD is set in the following manner: If an EDCT is received for a flight, the CTD is set to the EDCT time; If an EDCT purge is received for a flight and the flight is not active or completed, the CTD is cleared; or If a flight is not currently controlled, nor was it controlled when it departed, the value of CTD is null.
CTA	Controlled Time of Arrival. CTA is the current controlled arrival time (EDCT) for a flight. CTA is set in the following manner: If an EDCT is received for a flight, the CTA is set to the CTA from the EDCT; If an EDCT purge is received for a flight and the flight is not active or completed, the CTA is cleared; or If a flight is not currently controlled, nor was it controlled when it departed, the value of CTA is null.
LGTD	Airline Gate Time of Departure. Predicted gate time of departure provided by the airline in a CDM message. If an airline has sent in a gate departure time in a CDM message, then this field contains the most recent such time. Otherwise, the value is null
LGTA	Airline Gate Time of Arrival. Predicted gate time of arrival provided by the airline in a CDM message. If an airline has sent in a gate arrival time in a CDM message, then this field contains the most recent such time. Otherwise, the value is null.
LRTD	Airline Runway Time of Departure. Predicted runway time of departure provided by the airline in a CDM message. If an airline has sent in a runway departure time in a CDM message, then this field contains the most recent such time. Otherwise, the value is null
LRTA	Airline Runway Time of Arrival. Predicted runway time of arrival provided by the airline in a CDM message. If an airline has sent in a runway arrival time in a CDM message, then this field contains the most recent such time. Otherwise, the value is null.
for departure	S - estimate based solely on OAG data, P - the estimate is based on FZ data, L - the estimate is based on airline-generated CDM message, C-estimate is controlled departure time, A-the estimate is based on NAS DZ, E-the estimate has been extrapolated from an active NAS message other than DZ.
for arrivals	L- ETA is an airline provided runway arrival time, E- Time has been estimated by ETMS, A - Time is from a NAS AZ message

Note: For Departures - the precedence for the runway time in decreasing order is:

The actual time of departure taken from an DZ, or estimated from another "active" NAS message (prefix is A or E)

The current time if the flight is five minutes past its previous ETD and hasn't yet departed (prefix is S, L, C, or P; TOD flag is true); this is the ETMS "time-out" delay.

Note: When a flight is time-out delayed, the ETD keeps the prefix it had when it entered TOD status.

The runway time of departure taken from the latest FM/FC/EDCT/Sl. (Field T1 in a CDM message gives this time; prefix is L or C)

The runway time of departure modeled from the gate time of departure from the latest FM/FC. (Field T3 in a CDM message gives this time; prefix is L)

The runway time of departure modeled from the P-time in a NAS flight plan (prefix is P)

The runway time of departure modeled from the scheduled gate time of departure in the OAG (prefix is S)

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Note: For Arrivals - The sources of this runway time are dependent on whether the flight has departed.

For flights which have departed, the precedence in decreasing priority order is:

- The actual time of arrival taken from a NAS arrival message AZ (prefix is "A"); flight is completed.
- The time modeled from en route data updates (TZ's and UZ's). (prefix is E)
- (Actual departure time + previous ETE) when a DZ has been received. (prefix is E)

For flights which have not departed, the precedence in decreasing priority order is:

- (Current time + current ETE) if the flight is five minutes past its previous ETD and hasn't yet departed. (prefix is E); this is known as the ETMS "time-out" delay
  - The runway time of arrival taken from the latest FM/FC/EDCT/Sl. (Field T2 in a CDM message gives this time; prefix is L or C)
  - The runway time of arrival modeled from the gate time of arrival from the latest FM/FC. (Field T4 in a CDM message gives this time; prefix is E)
  - The runway time of arrival modeled from The P-time in a NAS flight plan. (prefix is E)
  - The runway time of arrival modeled from The scheduled gate time of departure in The OAG. (prefix is E)
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## POET Database Aircraft\_Equipment

	No DME	DME	TACAN only	Area Navigation
No transponder	X	D	M	W
Transponder (no altitude capability)	T	B	N	C
Transponder (with altitude encoding)	U	A	P	R,G,F,E

Note 1: The F and E suffixes will only be used by aircraft operating to and from airports within the U.S. and U.S. territories unless authorized by the controlling authority.

Note 2: Aircraft that will file R (RNAV) are those equipped with: OMEGA, very low frequency (VLF), inertial systems (INS) and/or any of these systems combined with VOR, DME, and/or ILS/MLS systems.

Note 3: Aircraft that will file G (GPS) are those equipped with: GPS/GNSS not approach capable or, GPS/GNSS approach capable.

Note 4: Aircraft that will file F (FMS) are those equipped with a single FMS that is capable of vertical navigation (VNAV).

Note 5: Aircraft that will file E (FMS) are those equipped with: dual inertial reference units (IRUs), dual FMSs, and an electronic map. All 'E' aircraft are authorized to fly all FMS procedures including those designated "For use by 'F' aircraft only."

Note 6: All aircraft operating with these equipment suffixes will have operating transponders with altitude (Mode C) capability. If an aircraft is unable to operate with a transponder and altitude encoding, it will revert to the appropriate code listed above under Area Navigation.

**POET Database  
Altitude\_Types**

**Examples**

		If Alt = 20 (100's ft) Block altitude only ('B' and 'E'): alt2 = 30 (100's ft)			If Alt = 200 (100's ft) Block altitude only ('B' and 'E'): alt2 = 240 (100's ft)		
Altitude Type	Altitude Format	No Altitude					
' '	DDd		20		200		
C	DDdC		20C		200C		
T	DDdT		20T		200T		
O	OTP	OTP	not applicable		not applicable		
P	OTP/DDd		OTP/20		OTP/200		
A	ABV/DDd		ABV/20		ABV/200		
V	VFR	VFR	not applicable		not applicable		
W	VFR/DDd		VFR/20		VFR/200		
F	CVF/DDd		CVF/20		CVF/200		
B	DDdBDDd		20B30		200B240		
M	MDDd		M20		M200		
N	MOTP	MOTP	not applicable		not applicable		
D	MVFR	MVFR	not applicable		not applicable		
E	MDDdBDDd		M20B30		M200B240		

**POET Database  
Facility\_Codes**

Code	Identifier	Location
A	ZAB	Albuquerque, NM
B	ZBW	Boston, MA
C	ZOB	Cleveland (Oberlin), OH
D	ZDV	Denver, CO
d	D84	Denver TRACON
E	ZAN	Anchorage, AK
F	ZFW	Dallas/Ft. Worth, TX
f	D10	Dallas/Ft. Worth TRACON
G	ZAU	Chicago (Aurora), IL
g	C90	Chicago TRACON
H	ZHU	Houston, TX
I	ZID	Indianapolis, IN
J	ZJX	Jacksonville, FL
K	ZKC	Kansas City, KS
L	ZLA	Los Angeles, CA
M	ZME	Memphis, TN
N	ZNY	New York, NY
n	N90	New York TRACON
O	ZOA	Oakland, CA
P	ZMP	Minneapolis, MN
Q	ZHN	Honolulu, HA
R	ZMA	Miami, FL
S	ZSE	Seattle, WA
T	ZTL	Atlanta, GA
U	ZLC	Salt Lake City, UT
V	ZLB	Samoa
W	ZDC	Washington, DC
X	TSC	ETMS generated
Y	ZSU	San Juan, Puerto Rico
1	SCT	SoCal TRACON
2	CZX	Gander
3	CZM	Moncton
4	CZU	Montreal
5	CZY	Toronto
6	CZW	Winnipeg
7	CZE	Edmonton

**POET Database  
Facility\_Codes**

**POET Database  
Facility\_Codes**

<b>Code</b>	<b>Identifier</b>	<b>Location</b>
8	CZV	Vancouver
<	ZEU	Europe
>	ZPA	Pacific
^	ZSA	South America

**POET Database  
Source\_msg**

Message	Table	Source	Code	Definition
airline	tblAirline	FM	N	
	tblAirline	FC	Q	
cancel	tblFlightData	RS	R	Scheduled cancellation
	tblFlightData	RZ	Z	Active cancellation
	tblFlightData	SI Cancel	X	Substitution cancellation
	tblFlightData	Control Cancel	H	Controlled cancellation
position	tblTrackData	TO	O	Oceanic reported position
route	tblRoute	FZ	F	Filed flight plan
	tblRoute	UZ	U	ARTCC boundary crossing
	tblRoute	AF	A	Amended flight plan
	tblRoute	FS	S	Scheduled flight plan
time_data	tblTime	DZ	D	Departure
	tblTime	AZ	L	Arrival
	tblTime	EDCT	E	Estimated departure clearance time
	tblTime	5 Setback	B	5-minute setback
	tblTime	Control Cancel	H	Controlled cancellation